L Number	Hits	Search Text	DB	Time stamp
1	2189	((138/89) or (138/90)).CCLS.	USPAT; US-PGPUB	2003/04/03 13:23
2	0	(138/96.r).CCLS.	USPAT; US-PGPUB	2003/04/03 13:23
3	511	(138/96r).CCLS.	USPAT; US-PGPUB	2003/04/03 13:23
4	372	((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.	USPAT; US-PGPUB	2003/04/03 13:24
5	2545	(((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)	USPAT; US-PGPUB	2003/04/03 13:24
6	2912	((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)	USPAT; US-PGPUB	2003/04/03 13:24
7	874297	polypropylene or pp or polyolefin or pe or polyethylene	USPAT; US-PGPUB	2003/04/03 13:24
8	1351194	metal or rubber	USPAT; US-PGPUB	2003/04/03 13:25
9	164831	tab or tabs	USPAT; US-PGPUB	2003/04/03 13:25
10	44711	skirt	USPAT; US-PGPUB	2003/04/03 13:25
11	251344	cap	USPAT; US-PGPUB	2003/04/03 13:25
12	1783361	(polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)	USPAT; US-PGPUB	2003/04/03 13:26
13	2021	((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)) and cap and skirt and (tab or tabs)	USPAT; US-PGPUB	2003/04/03 13:26
14	1362	(((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)) and cap and skirt and (tab or tabs)) and plurality	USPAT; US-PGPUB	2003/04/03 13:27
15	155	((((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)) and cap and skirt and (tab or tabs)) and plurality) and pipe	USPAT; US-PGPUB	2003/04/03 13:33
16	1031	(((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber))	USPAT; US-PGPUB	2003/04/03 13:33
17	254	(((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)	USPAT; US-PGPUB	2003/04/03 13:34
18	198	(((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt	USPAT; US-PGPUB	2003/04/03 13:34
19	185	((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))	USPAT; US-PGPUB	2003/04/03 13:34
20	53	((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber))))	USPAT; US-PGPUB	2003/04/03 13:37

21	132	((((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))) not ((((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))))	USPAT; US-PGPUB	2003/04/03 13:45
22	4	("3208620" | "3297193" | "3716162" | "3759415").PN.	USPAT	2003/04/03 13:42
25	185	((((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))))	USPAT; US-PGPUB	2003/04/03 13:46
26	145	((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) not ((((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber))))))	USPAT; US-PGPUB	2003/04/03 13:57
27	10	("1498563" | "1853946" | "2073584" | "2121436" | "2196454" | "2977993" | "3485271" | "3490488" | "3496964" | "3744528").PN.	USPAT	2003/04/03 13:52
37	5	("2596182" | "2956822" | "3048911" | "3254153" | "0891109").PN.	USPAT	2003/04/03 13:54
43	3	("1894711" | "2157867" | "2956822").PN.	USPAT	2003/04/03 13:55
47	14	3583710.URPN.	USPAT	2003/04/03 13:56

48	330	((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) and (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber))))))	USPAT; US-PGPUB	2003/04/03 13:58
49	51	((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) not (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) and (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))))))	USPAT; US-PGPUB	2003/04/03 14:01
50	381	((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) and (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))))))	USPAT; US-PGPUB	2003/04/03 14:01

| 51 | 759 | ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber))) not (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) or ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))))))) | USPAT; US-PGPUB | 2003/04/03 14:21 |
| 52 | 1140 | ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber))) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) or ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))))))) | USPAT; US-PGPUB | 2003/04/03 14:22 |

| 53 | 1772 | (((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) not ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber))) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) or ((((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and (((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber)))) or (((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and skirt) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and (tab or tabs)) and ((((((138/89) or (138/90)).CCLS.) or ((138/96r).CCLS.)) or (((220/229) or (220/782) or (220/786) or (220/791) or (220/793)).CCLS.)) and ((polypropylene or pp or polyolefin or pe or polyethylene) or (metal or rubber))))))))) | USPAT; US-PGPUB | 2003/04/03 14:22 |